

Amendments to the Claims:

This listing of claims will replace all prior version and listings of claims in the application.

1. (Currently amended) A method for dynamically generating database queries when using a web-based graphical user interface (GUI), comprising:

(a) storing query web interface data, including attributes for a database, in one more tables;

(b) retrieving the attributes from the table and displaying ~~the attributes a~~ functionally categorized listing of query attributes on a ~~graphical user interface GUI~~ web page ~~for user selection~~;

(c) allowing a user to select any combination of attributes on the GUI web page;

~~(e)~~ (d) dynamically generating a an SQL query based on the attributes selected by the user; and

~~(d)~~ (e) displaying results of the SQL query to the user in graphical format, thereby enabling dynamic generation of custom queries.

2. (Canceled)

3. (Currently amended) The method of claim 2 1 wherein the graphic format for displaying the results includes an X-axis and Y-axis.

4. (Original) The method of claim 3 wherein step (b) further includes the step

of: in order to generate the SQL query, requiring at least a first attribute to be plotted along the X-axis, a second attribute to be plotted along the Y-axis, wherein the first attribute comprises an X attributes and the second attribute comprises a Y attribute, and a process factor to apply to the Y attribute.

5. (Original) The method of claim 4 wherein step (b) further includes the step of: allowing the user to select a series attribute, wherein the series attribute represents a query parameter that is used to group Y attribute values plotted.

6. (Original) The method of claim 5 wherein step (b) further includes the step of: allowing the user to select a filter, wherein the filter is a group of attributes that are used to restrict the scope of a query.

7. (Currently amended) The method of claim ~~2~~ 1 wherein step (b) further includes the step of: allowing the user to form a query from a basic query page or a query customization page.

8. (Original) The method of claim 7 wherein step (b) further includes the step of: displaying on the basic query page rows of attributes, where each row includes a field for an attribute type, an attribute description, and process factors that are used to calculate Y attribute values.

9. (Original) The method of claim 7 wherein step (b) further includes the step of: allowing queries to be formed as single attribute queries or multiple attribute queries,

wherein a single attribute query only includes an X attribute where a result of a query is displayed as a distribution, and wherein in a multiple attribute query, the user chooses X and Y attributes.

10. (Original) The method of claim 1 wherein step (a) further includes the step of: storing the attribute data in at least two attribute tables.

11. (Original) The method of claim 10 wherein step (c) further includes the step of: generating the query by inserting into a SQL SELECT statement, table and column names for the selected attributes, an X attribute value set, and a series value set.

12. (Original) The method of claim 11 wherein step (c) further includes the step of: retrieving the table and column names for the selected attributes from one or more of the attribute tables.

13. (Original) The method of claim 12 wherein step (c) further includes the step of: inserting the X attribute value set, and a series value set into a WHERE clause of the SQL statement.

14. (Original) The method of claim 13 wherein step (c) further includes the step of: creating respective SQL SELECT statements joined together by a UNION statement for each of the X attribute values.

15. (Currently amended) A dynamic query generator system, comprising
a client computer coupled to a network;
a server coupled to the network in communication with the client computer; and
a query engine executing on the server, the query engine functioning to,
generate and display a functionally categorized listing of query attributes on a GUI web
pages page on the client computer for user selection of database attributes, allowing a
user to select any combination of attributes on the GUI web page, using the inputs
provided by the user to automatically generate a an SQL query to retrieve data from a
database, and display results of the query to the user in graphical format, thereby
enabling dynamic generation of custom queries.

16. (Original) The system of claim 15 wherein the query engine comprises a
page builder, page builder tables, a query processor, a database layer, and
presentation logic.

17. (Original) The system of claim 16 wherein the page builder tables store
the attributes.

18. (Original) The system of claim 17 wherein the page builder displays the
attributes on the GUI pages by accessing the attributes from the page builder tables.

19. (Original) The system of claim 18 wherein the query processor generates
SQL statements based on the attributes chosen by the user, and the database layer
comprises the SQL queries that are generated by the query processor to retrieve

information from the database.

20. (Original) The system of claim 19 wherein the presentation logic implements a charting engine that displays the results of the executed SQL query to the user in tabular or chart format.